Ganaplacide

MedChemExpress

at. No.:	HY-108024	
AS No.:	1261113-96-5	0
Iolecular Formula:	C ₂₂ H ₂₃ F ₂ N ₅ O	
Iolecular Weight:	411.45	Ń NH
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athway:	Anti-infection	
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Product Data Sheet

BIOLOGICAL ACTIVITY				
Description Ga	Ganaplacide (KAF156) is a first-in-class,orally active imidazolopiperazine antimalarial agent.Ganaplacide is active against a broad range of Plasmodiumspecies, including drug-resistant parasites. Ganaplacide is parasiticidalagainst both asexual and sexual blood stages as well as the liver stages of theparasite ^{[1][2]} .			
fal	Ganaplacide (KAF156) shows blood schizonticidal activity with 50% inhibitory concentrations of 6 to 17.4 nM against P. falciparum drug-sensitive and drug-resistant strains ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			
tra Ga	Ganaplacide (KAF156) displays cidal activity against mature Plasmodium falciparum gametocytes and thus blocks parasite transmission to Anopheles mosquitoes ^[1] . Ganaplacide (KAF156) (1-15 mg/kg; p.o.) is fully protective in a causal prophylactic mouse model of malaria ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			
An	nimal Model:	Mice (causal prophylactic rodent malaria model) ^[1]		
Do	osage:	1-15 mg/kg		
Ad	dministration:	p.o.		
Re	esult:	A single oral dose of 10 mg of KAF156/kg administered 2 h before infection was fully protective.		

REFERENCES

[1]. Kuhen KL, et al. KAF156 is an antimalarial clinical candidate with potential for use in prophylaxis, treatment, and prevention of disease transmission. Antimicrob Agents Chemother. 2014;58(9):5060-5067.

[2]. Leong FJ, et al. A first-in-human randomized, double-blind, placebo-controlled, single- and multiple-ascending oral dose study of novel Imidazolopiperazine KAF156 to assess its safety, tolerability, and pharmacokinetics in healthy adult volunteers. Antimicrob Agents Chemother. 2014;58(11):6437-6443.

[3]. Leong FJ, et al. A first-in-humanrandomized, double-blind, placebo-controlled, single- and multiple-ascendingoral dose study of novel Imidazolopiperazine KAF156 to assess its safety, tolerability, and pharmacokinetics in healthy adult volunteers. AntimicrobAgents Chemother. 2014;58(11):6437-6443.

Caution: Product has not been fully validated for medical applications. For research use only.

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